MONTHLY BULLETIN

OF

THE OBSERVATORY

AMERICAN UNIVERSITY OF BEIRUT

BEIRUT, LEBANON

LAT. 33° 54' 22" N.

LONG. E. FROM GREENWICH 35° 28' 10"

December 1949

ROBERT W. SLOANE, DIRECTOR

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WEATHER BUREAU

DECMBR 1949

METEOROLOGICAL REGISTER

Date	Barometer reduced to O°C Sea level and 45° Latitude 700 mm. + ...				Thermometer Degrees Centigrade					
	8.30	14:30	20.30	Mean	Max.	Min.	8:30	14:30	20:30	Mean
1	62.9	60.8	61.1	61.6	23.3	16.6	19.4	21.5	18.7	19.9
2	60.2	58.3	57.9	58.8	23.0	16.8	18.6	21.6	18.2	19.5
3	57.8	57.6	58.7	58.0	22.5	15.2	19.9	21.1	18.3	19.8
4	60.2	59.2	60.0	59.8	21.1	15.4	17.7	20.7	16.6	18.3
5	59.6	59.9	61.9	60.5	20.3	13.4	16.7	18.3	14.4	16.5
6	62.6	62.5	63.5	62.9	19.7	13.7	17.7	18.8	16.1	17.5
7	65.1	64.5	64.6	64.7	20.3	14.5	16.7	19.2	16.4	17.4
8	64.2	63.0	63.1	63.4	18.7	13.8	15.6	18.7	16.4	16.9
9	62.7	61.6	61.9	62.1	19.4	13.5	16.4	18.3	15.6	16.8
10	62.5	62.0	62.4	62.3	17.4	12.7	16.5	16.1	15.5	16.0
11	64.7	64.3	65.4	64.8	18.5	13.0	15.4	18.1	14.7	16.1
12	66.7	65.9	67.1	66.6	19.1	13.7	15.7	18.8	15.3	16.6
13	67.4	66.8	67.8	67.3	20.0	13.6	16.5	18.3	16.6	17.1
14	69.0	67.9	67.8	68.2	19.3	14.4	15.6	18.8	15.4	16.3
15	66.3	63.8	64.0	64.7	20.2	15.3	17.2	19.8	17.8	18.3
16	64.5	63.8	64.0	64.1	18.9	13.8	16.2	17.8	15.6	16.5
17	62.1	58.6	57.6	59.4	18.6	16.3	16.7	17.8	16.9	17.1
18	55.0	55.4	55.3	55.2	19.8	10.9	17.2	16.1	15.5	16.3
19	55.6	54.8	55.0	55.1	18.7	14.0	14.4	16.6	16.6	15.9
20	57.2	58.9	60.7	59.3	20.4	14.1	18.1	15.5	17.2	16.9
21	61.7	58.8	57.9	59.5	17.4	12.7	17.2	17.1	14.4	16.2
22	58.5	58.0	58.4	58.3	16.8	12.0	14.4	16.1	14.0	14.8
23	57.5	56.7	57.6	57.3	17.0	12.2	14.6	16.2	12.9	14.6
24	57.8	57.7	57.9	57.8	17.1	11.6	14.8	12.6	12.2	13.2
25	57.7	56.3	57.7	57.2	16.9	11.2	15.9	16.6	15.1	15.9
26	59.1	58.6	58.9	58.9	14.3	9.0	13.3	13.7	11.6	12.9
27	59.4	57.1	59.0	58.5	16.1	10.2	10.4	12.2	10.9	11.2
28	57.8	56.1	57.4	57.1	16.5	11.1	15.6	14.2	14.7	14.8
29	58.5	59.5	67.4	61.8	15.5	10.5	14.0	15.4	14.3	14.6
30	66.1	66.3	67.2	66.5	15.0	9.7	12.1	13.4	10.8	12.1
31	66.2	64.4	65.2	65.3	16.0	9.9	12.1	15.1	11.2	12.8
	61.50	60.62	61.43	61.19	18.64	13.06	15.88	17.24	15.16	16.12

Barometer, range for month 769.0 mm. — 754.8 mm.

,, 71-yr. average for month 763.23 mm.

Thermometer, range for month 23.3°C — 9.0°C

,, 71-yr. average for month 15.99°C.

Rain, total for month 239.79 mm.

,, 71-yrs average for month 185.45 mm.

,, Tolal, Sept. 1st. to end of month 288.81 mm.

,, 71-yr. average, Sept. 1st. to end of month 374.27 mm.

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METEOROLOGICAL REGISTER

Date	Pressure of Water Vapor Millibars				Relative Humidity per cent.				sun.	Wind per day	Rain
	8:30	14:30	20:30	Mean	8:30	14:30	20:30	Mean	Hrs.	Kms.	m.m.
1	10.4	14.4	11.4	12.1	46	55	52	51	9.1	64	
2	13.9	16.1	8.9	13.0	65	62	30	52	9.5	37	
3	13.1	15.4	13.3	13.9	56	61	63	60	9.4	35	
4	13.3	13.7	15.8	14.3	67	58	84	70	4.6	61	0.51
5	13.6	14.4	16.5	14.8	72	68	99	80	2.8	217	11.17
6	14.4	16.1	14.1	14.9	71	75	75	74	3.1	80	2.54
7	15.5	16.7	14.1	15.4	82	78	78	79	4.7	212	2.80
8	16.6	16.7	14.1	15.8	93	77	78	83	3.2	150	11.43
9	14.9	17.6	14.5	15.7	80	82	83	82	4.3	111	12.70
10	14.7	15.1	14.5	14.8	80	82	82	81	4.1	64	20.07
11	12.8	12.8	12.5	12.7	72	61	77	70	8.2	37	3.81
12	11.2	13.9	13.5	12.9	63	64	79	69	8.9	51	
13	13.4	15.5	14.2	14.4	72	72	74	73	8.8	169	
14	11.6	13.9	12.5	12.7	65	63	71	66	8.0	98	
15	14.6	19.2	17.5	17.1	73	82	86	80	3.8	188	
16	15.2	11.3	11.6	12.7	81	57	64	67	5.9	158	
17	13.3	16.4	13.6	14.4	70	81	72	74	3.2	80	0.51
18	12.4	14.6	15.0	14.0	63	81	87	74	4.0	283	5.84
19	12.2	13.6	14.7	13.5	73	72	77	74	5.5	970	19.30
20	13.0	16.6	16.3	15.3	62	94	83	80	0.9	373	5.33
21	16.3	16.3	14.4	15.7	83	83	88	85	2.3	412	5.08
22	12.9	11.6	11.5	12.0	78	64	75	72	6.4	111	3.81
23	10.6	13.6	14.3	12.8	62	74	96	77	5.8	114	1.02
24	12.8	14.3	13.3	13.5	79	96	95	89	6.9	134	11.18
25	13.3	12.1	12.5	12.6	73	66	73	71	0.3	528	7.11
26	13.4	15.9	13.7	14.3	86	99	99	95	0.5	483	38.61
27	12.1	13.3	11.8	12.4	96	92	91	93	0.1	647	56.14
28	12.4	13.4	11.0	12.3	70	83	67	73	0.2	531	19.56
29	10.6	9.7	8.7	9.7	65	56	54	58	0.3	332	1.27
30	8.7	9.2	12.7	10.2	63	61	99	74	8.9	151	
31	8.7	12.0	9.6	10.1	64	70	74	69	7.7	135	
	12.96	14.37	13.29	13.55	71.7	73.2	76.6	74.0	4.88	226.3	7.74

Height of Barometer above sea level: 33.7 meters.

,, ,, Thermometers above ground:

Dry and wet 1.55 m ; Max. 1.75 m.; Min. 1.70 m.

Rim of Rain Gauge: above ground 0.56 m.; above sea level 30.31 m.

Time of reading minus 2 hours equal G.C.T.

71year averages are for period, 1875-1945

DECEMBER 1949

METEOROLOGICAL REGISTER

Date	Clouds clear—0 Overcast—10				Direction and force of wind Beaufort scale			Sea	Notes
	8:30	14:30	20:30	Mean	8:30	14:30	30:20		
1	7ci	3ci	2ci	4.0	1se	2n	1ne	light	
2	0	0	0	0.0	0	1n	1n	,,	
3	0	4ci-cu	3ci-cu	3.0	1sw	2w	1w	,,	Thunder at night
4	0	4cu-ci	6ci-cu	3.3	1se	1w	1w	,,	
5	10-nist	10ni-st	10ni	10.0	1se	4sw	1sw	,,	
6	8cu-ci	4cu-ci	9st-ni	7.0	1s	1ne	0	,,	
7	9cu-ni	1cu-ci	4ci-st	4.7	1s	2sw	0	,,	
8	10ni	7cu	10ni-cu	9.0	1e	1s	1s	,,	Thunder a.m.
9	4st-cu	8cu-st	4cu	5.3	1sw	1s	1s	,,	
10	9cu-ni	9cu-ni	4cu	7.3	1sw	1sw	sw	,,	Snow on mountains
11	2cu-st	0	0	0.7	1sw	1n	0	,,	
12	2ci	0	0	0.7	1se	1nw	1n	calm	
13	7ci-st	0	0	0.7	1e	1ne	1ne	light	Good visibility
14	0	2ci	8ci	3.3	1se	1nw	0	calm	,,
15	9cu-st	8cu-ni	7cu	8.3	1sw	3sw	1sw	slight	
16	2cu-ci	3ci	9st	4.7	1e	3n	0	moderate	
17	10st	10ni	10st	10.0	1se	1sw	0	slight	
18	10st-ni	10ni	10cu-ci	10.0	1se	1sw	4sw	moderate	
19	8cu	8cu	4cu	6.7	2s	3sw	5se	slight	GT at night.
20	4st	10ni	7cu-ci	7.0	5sw	4sw	2sw	rough	GT.
21	10st-ni	9st-ni	10cu-ni	9.7	2w	1nw	6sw	slight	W. at night
22	6ci-st	7ci-st	8st	7.0	1sw	3sw	1sw	,,	
23	7cu-st	8cu	10ni	8.7	1se	1n	1sw	light	
24	8cu-st	8cu-ni	8cu-ni	8.0	3sw	1s	1sw	,,	W. at noon
25	10cu-ni	7cu-ci	10cu-ni	9.0	3sw	5sw	3sw	slight	
26	10ni	3ni-cu	10ni	7.7	2s	3s	2sw	,,	
27	10-ni	10-ni	10ni	10.0	3s	5sw	7sw	light	GT. p.m ; Hail p.m
28	10cu-ni	8cu-ni	9cuni	9.0	4sw	7w	5sw	rough	W. a.m. p.m.
29	8cu	7cu	9cu	8.0	5w	2n	5w	,,	
30	2cu-ci	0	0	0.7	1se	2ne	1ne	light	
31	8cu-ci	6ci-st	0	4.7	1se	2ne	1ne	,,	
				6.07					

Abbreviations :— G = gale; H = haze; M = mist ; T = thunderstorm ; D = dew.
W = strong wind; Tr = trace of rain

Number of Daily Wind Observations

Time	N	NE	E	SE	S	SW	W	NW	Calm	Totals
8:30	0	0	3	10	6	9	2	0	1	31
14:30	6	4	0	0	4	11	3	3	0	31
20:30	3	4	0	1	2	13	2	0	6	31
Total	9	8	3	11	12	33	7	3	7	93

Number of days with rain 21, fog 0, thunderstorms 0, gale 3.

71 yr. av. number of days with rain during month 13.4